



Managing daylight in commercial buildings

VELUX Modular Skylights with integrated roller blinds
for controlling heat and solar glare

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VELUX[®]

Commercial



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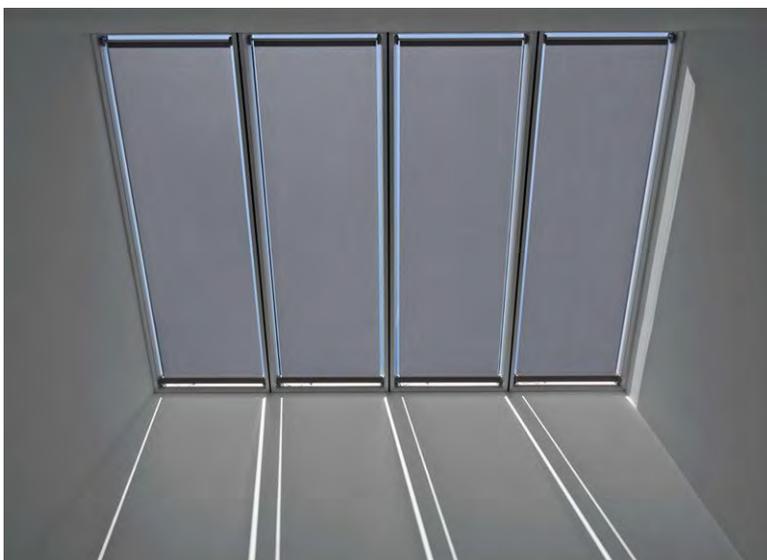


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1. Frontpage:
St Francis Primary School
Isle of Wight, Great Britain
2. Siemens Head Office
Ballerup, Denmark
3. Somfy Lighthouse
Verrière-Somfy, France

The sun is the basis of all life

But too much sun – is just too much



The essence of comfort

When people tend to spend 90% of their time indoors, designing with daylight becomes an obligation. Good daylight design brings the qualities of the outdoors into the building. But when sunrays shine through glass panes in the roof – without any form of shading – it can lead to an uncomfortable indoor environment and cause distracting solar glare.

Built-in comfort

VELUX Modular Skylights offer several unique features for great daylight design.

- Venting modules allow easy control of the indoor climate by opening and closing the windows to provide fresh air and reduces the need for mechanical ventilation.
- The glazing unit can be fitted with low emissivity or sun protection coatings and other sun inhibitory surfaces.
- Our integrated blinds control heat and minimise glare and thermal discomfort.

Roller blinds

Our specially-designed roller blinds are supported by thin, free-floating wires to create an invisible effect. Blinds come with fire-retardant* cloth and are available in three colours, white, grey and black.

VELUX Modular Skylights offer two intelligent control options, VELUX io-homecontrol® or an open system solution.

VELUX io-homecontrol® is a simple, wireless system that uses VELUX supplied operation devices to operate venting modules and roller blinds to any desired position. You can also specify a rain and wind sensor that will close the Modular Skylights in case of rain and strong winds. Alternatively, the modular system can be controlled with a building management solution connected to ± 24 V DC. Options include io-homecontrol® compatible systems and common building automation fieldbus systems.

*Reaction to Fire:

Norm EN13501-1, Class B,s1-d0; DIN 4202-1, Class B1; NF P 92 503-507, Class M1

Benefits of sun screening with integrated roller blinds

- Reduce glare and thermal discomfort
- Reduce need for mechanical ventilation
- Help create a healthy indoor climate



Roller blinds are kept taut and smooth by a strong, thin wire suspension.



Roller blind bottom wheel ensures position of the wire.



The motor for roller blind operation is hidden inside the rod.

Fire retardant sun screening



*The backside of the black roller blind is coated with aluminium to reduce fading of the fabric and to achieve better technical values. When rolled up it appears to be silver.

Glazing unit and roller blind data

Glazing unit

Glazing with low emissivity coating (LowE)

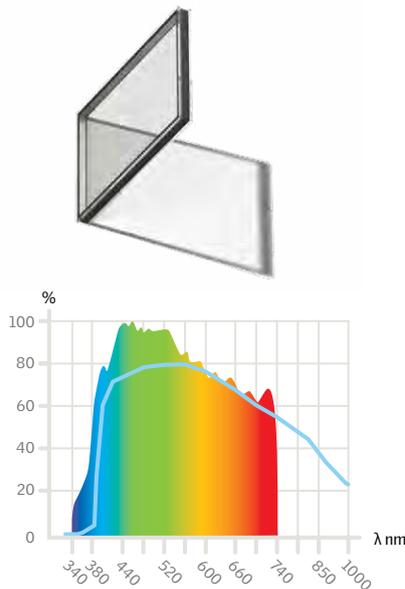
Glazing variant 10L

Light transmittance: T_v -value = 80%
 Solar factor: g-value = 61%
 Colour rendering index: R_a = 97%

Spectral values (wave length in nm)

 Visible daylight  tau

All of the above mentioned values are in accordance with EN 410.

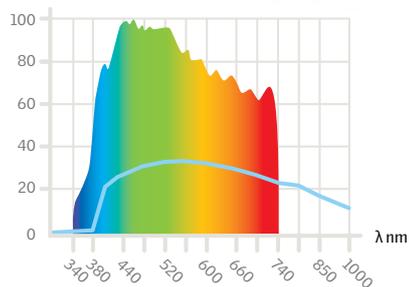


Glazing unit with low emissivity coating and roller blind

Glazing with low emissivity coating (LowE) and Roller Blind RMM 8806, White

Glazing variant 10L

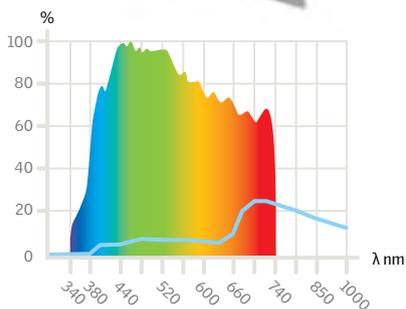
Light transmittance: T_v -value = 31%
 Solar factor: g-value = 36%
 Shading factor: F_c -value = 59%



Glazing with low emissivity coating (LowE) and Roller Blind RMM 8805, Grey

Glazing variant 10L

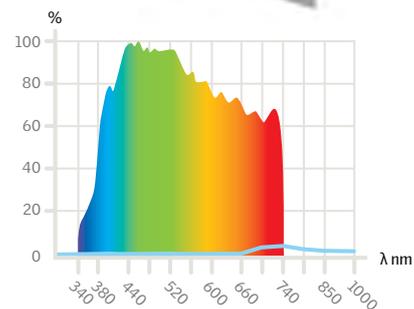
Light transmittance: T_v -value = 8%
 Solar factor: g-value = 43%
 Shading factor: F_c -value = 70%



Glazing with low emissivity coating (LowE) and Roller Blind RMM 8807, Black

Glazing variant 10L

Light transmittance: T_v -value = 0%
 Solar factor: g-value = 37%
 Shading factor: F_c -value = 61%



The advantages of a truly prefabricated modular system



Rooflight solutions for public and commercial buildings

VELUX Modular Skylights are a unique modular system, fully prefabricated offsite for commercial buildings. Factory-made to tight tolerances, they incorporate high energy performance, thermal stability and great strength in a slim and fully integrated design.

The skylight system can be installed three times quicker than a traditional installation, sealing off the building and making it watertight faster than any other skylight solution.

VELUX Modular Skylights allow you to create a range of different designs for a variety of commercial buildings; offices, schools, cultural buildings, public spaces, shopping malls and health-care facilities.

Specification and consultancy

Our experienced building consultants are ready to help you get started. We offer expert guidance from concept design to detailed specification.

Contact

Our aim is to provide all the information and tools you need to make your project as simple and trouble free as possible. [Get in touch](#) with us today.

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Your preferred partner for daylight and ventilation solutions



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